



FACT SHEET

## GRID RESILIENCE AND INNOVATION PARTNERSHIPS PROGRAM

*Established by the Bipartisan Infrastructure Law, the U.S Department of Energy's Grid Deployment Office is administering a historic \$10.5 billion investment via the Grid Resilience and Innovation Partnerships (GRIP) program to enhance grid flexibility, improve the resilience of the power system against growing threats of extreme weather and climate change, and ensure American communities have access to affordable, reliable, clean electricity when and where they need it.*

## COMMUNITY ENERGY RESILIENCY PROGRAM

With the significant growth in load and Distributed Energy Resource (DER) demand, CPS Energy needs to deliver robust grid modernization and resiliency that will be required to address the accelerating changes on the horizon. The Community Energy Resiliency Program will address this change by deploying innovative technologies to better orchestrate grid conditions through management and optimization of DER (microgrids, solar, battery storage) and smart grid technologies such as fault location, isolation, and service restoration (FLISR) and Volt/VAR optimization (VVO). The goal is to ensure that the grid is reliable, secure, and efficient, and that it can meet the evolving needs of consumers and businesses in a sustainable manner.

### Anticipated Outcomes and Benefits

- › Improving distribution system reliability with adoption of reclosers, fault sensors, capacitor banks, battery energy storage systems (BESS), and controls to enable intelligent sensing at the grid edge.
- › Integrating advanced distribution management system (ADMS) flow modeling and controls for system planning, engineering, and integration capabilities to support variable renewable energy resources on the grid.
- › Adopting self-healing grid platforms by adding battery storage and smart inverters to a photovoltaic development to create islanding capabilities, improving resiliency for 57% of **disadvantaged communities** (DACs).
- › Implementing a distributed energy resource management system (DERMS) and integrating it with the ADMS to support the rising adoption of distributed generation and new loads on the system.
- › Supporting union jobs in partnership with the International Brotherhood of Electrical Workers (IBEW).
- › Providing career-track training through National Joint Apprenticeship and Training Committee (NJATC), which builds and advances the skills necessary to meet the needs of the electric utility industry.
- › Partnering with local and diverse companies and subcontractors contributes to economic growth of San Antonio.
- › Advancing diversity, equity, inclusion, and accessibility through anti-bias training and education to prevent discrimination and unconscious bias and support for quality apprenticeship-readiness and/or pre-apprenticeship programs.
- › Directing over 60% of benefits to DACs and ensuring that 63% of economic value generated (\$5.9 million initially and \$118 million over the program's 20-year life) will accrue to DACs in San Antonio.
- › Achieving a 30%–50% reduction in the customer average interruption duration index (CAIDI) per feeder.
- › Generating approximately \$9.5 million in annual economic value from reliability improvements.

### PROJECT DETAILS

- › **Project:**  
Community Energy Resilience Program
- › **Applicant/Selectee:**  
CPS Energy
- › **GRIP Program:**  
Smart Grid Grants (Bipartisan Infrastructure Law, Section 40107)
- › **Federal cost share:**  
\$30,227,710
- › **Recipient cost share:**  
\$30,227,710
- › **Project Location:**  
San Antonio, TX
- › **Project type:**  
Grid Capacity and Renewable Integration

### HELPFUL LINKS

- › [Grid Resilience and Innovation Partnerships Program](#)
- › [About the Grid Deployment Office](#)